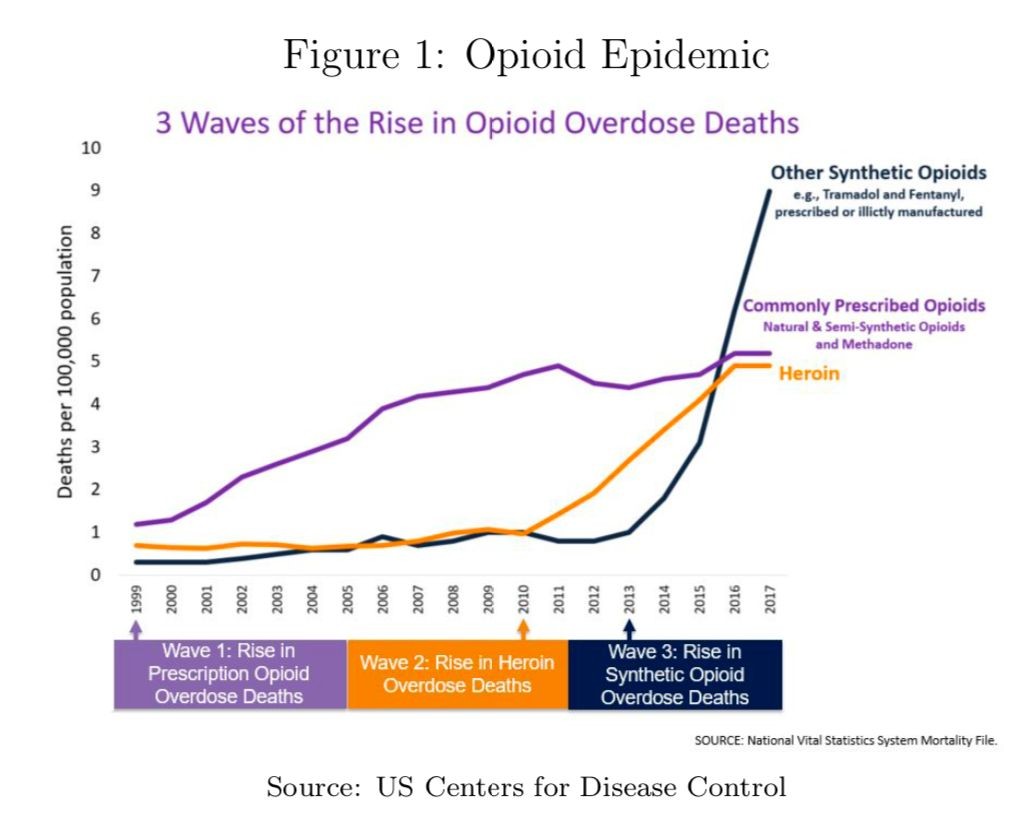
**Estimate the Impact of Opioid Control Policies**

**Motivation for the project:**

Over the past two decades, the United States has seen a tremendous increase in the use and abuse of prescription opioids. As a result, there has been a rise in drug overdose deaths from prescription as well as non-prescription opioids like heroin and fentanyl.



Owing to this, several states such as Florida (in 2010), Texas (in 2007) and Washington (in2011) have passed laws to make the prescription of opioid drugs more stringent.

Assess the effectiveness of these policy changes can be of vital importance for the respective states for course correction in this area as well as serve as guidelines for other states who may want to act on the issue of opioid regulation.

To get a good understanding of the impact of the policy change, we would want to observe the patterns in opioid prescriptions as well as mortality in regard to drug overdoses.

Our interest in examining mortality as well as opioid prescriptions comes from the fact that while restricting access to opioids may reduce the likelihood that future patients will end up addicted to opioids, it may drive already addicted patients to turn to alternative forms of opioids, be those illegally purchased prescription drugs, heroin, or fentanyl. This possibility is deeply troubling because the likelihood of overdosing on these illegal drugs is much higher than on (monitored) prescription drug

**Motivation for the design of the project:**

This project aims to answer a causal question, and the most standardized approach to study the effect of policy change is a ‘pre-post analysis’. In this technique one looks at the trend/data of the metric of interest before and after a certain change has occurred, hoping to understand the impact of that change on the metric. This technique attributes the difference in trends completely to the change that has occurred or implemented.

A better approach compared to the ‘pre-post analysis’ is the ‘difference-in-difference’ analysis where we even take into consideration the trends of the metric of interest in the control population (where the change hasn’t occurred) and compare it with the trends in the treated population (where the change has occurred). This technique is far better in controlling for other factors that may have caused fluctuations in the metric of interest apart from the change being studied.

For out study, we will be conducting both a ‘pre-post’ analysis as well as the ‘difference-in-difference’ analysis for the 3 states under study. The control group for the analysis will be all the 47 states where the policy changes haven’t been made. This gives us the maximum statistical power in the analysis.

The scope of the analyses on both the opioid transactions and the mortality arising from drug overdoses have been summarised in the following tables:

|  |  |  |  |
| --- | --- | --- | --- |
| **State** | **Policy change year** | **Time period of analysis** | **Level** |
| Florida | 2010 | 2006 - 2012 | Yearly |

**Table 1.** Description of the scope of analysis for opioid transactions in Florida.

For the opioid transaction data, the states of Texas and Washington had only one year prior to the policy change and one year post the policy change respectively. This made analysis at a yearly level not very informative. Breaking this analysis down to the month level wasn’t very useful either as we were still capturing some yearly trends. Therefore, a simple percent increase/decrease in the per-capita opioid transactions of Texas and Washington were calculated and was compared with the average percent increase/decrease in the per-capita opioid transactions of all other (47 non-policy) states.

|  |  |  |  |
| --- | --- | --- | --- |
| **State** | **Policy change** | **Time period of analysis** | **Method** |
| Texas | 2007 | 2006 - 2012 | Percent Increase |
| Washington | 2011 | 2006 - 2012 | Percent Increase |

**Table 2.** Description of the scope of analysis for opioid transactions in Texas and Washington.

|  |  |  |  |
| --- | --- | --- | --- |
| **State** | **Policy change year** | **Time period of analysis** | **Level** |
| Florida | 2010 | 2004 - 2015 | Yearly |
| Texas | 2007 | 2004 - 2015 | Yearly |
| Washington | 2011 | 2004 - 2015 | Yearly |

**Table 3.** Description of the scope of analysis for drug overdose mortality in Florida, Texas and Washington.

**Data Sources & Transformations:**

There were three main sources of data that were used in this analysis:

**Opioid Transactions:** The data on the county-wise transaction of drugs was obtained from the extensive database maintained by The Washington Post1. This dataset essentially tracks every opioid pill (hydrocodone or oxycodone) from the manufacturer to the pharmacy at a transaction (including the date on which the transaction occurred) level. Naturally, this dataset also included details on the location of the seller at the county level, date of transaction, volume of drug transaction, the Milligram Morphine Equivalent (a conversion factor based on the opioid Morphine), buyer location at the county level etc. Overall, this dataset was very comprehensive with data on over 180 million transactions between 2006-12 and was used to calculate per-capita opioid transactions in conjunction with the population dataset.

*Transformations:* The final dataset used for plotting the trends for opioids analysis is mentioned below:

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **County** | **State** | **Month** | **Year** | **opioids\_per\_capita** | **pre\_post** | **policy\_state** |
|  |  |  |  |  |  |  |

The data related to the buyer was used to identify the county and the state. The month and the year columns were extracted from the date of transaction. The quantity of opioids was calculated as the product of the ‘calc\_base\_wt\_in\_gm’ and the ‘MME\_conversion\_factor’ columns. This data was collapsed at a ‘State, ‘County and ‘Year’ level for the state of Florida and at a ‘State, ‘County, ‘Year’ and ‘Month’ level for the states of Washington and Texas, leading to 2 different datasets.

The column ‘pre\_post’ and ‘policy\_state’ were created considering the state under analysis, leading to 3 different datasets, one for each state. The population data was merged to these datasets and the ‘opioids\_per\_capita’ was calculated.

It is important to mention that there were certain counties in a few states where the transactions of opioids were not substantial enough to be reported in the dataset. These counties were dropped in the analysis.

**Drug Overdoses:** This is another comprehensive dataset maintained by the US Centers for Disease Control and Prevention (CDC) under its National Vital Statistics System2. This serves as a record for the number of deaths by county at a yearly level. The dataset also classifies death based on the cause of death. We are concerned only with the death caused due to drug overdoses to calculate mortality arising from drug overdoses.

It also has to be noted that the dataset does not include the name of the exact drug involved in a death. Hence, this data is just a proxy to measure opioid related deaths.

*Transformations:* US Vital Statistics data sets (.txt) were separated by year, we

combined all the data sets into one file. After concatenating 12 txt files, we split the

name of ‘County’ into ‘County’ and ‘State’ (e.g. Autauga County, AL->AL Baldwin County). Then, we removed non-unseful columns and rows with missing values and

change the data types (e.g. string data to numeric data). We primarily focused on

number death by 'Drug poisonings (overdose) Unintentional (X40-X44)', 'Drug

poisonings (overdose) Undetermined (Y10-Y14)', 'Drug poisonings (overdose)

Suicide (X60-X64)'. We merged this dataset with the population data on ‘State’ and ‘County’. We calculated ‘Death\_Rate’ by dividing ‘Death’ by ’pop2010’. We then added ‘Policy State’ column to indicate the states where changed the policy and ‘Post’ column to indicate the timeline that before and after the policy in effective.

In addition to the final dataset, there will be 3 sub datasets for each state (TX, FL, WA) under consideration for the 3 states of study, especially for Difference-in-Difference between 3 states and non-policy states. The final dataset would have the following columns.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **State** | **County** | **Year** | **Death\_Rate** | **Policy\_State** | **Pre\_post** |

**Population:** This dataset contains data on the US population at a county level3. It has to be noted that the US census is taken once in ten years – with the last one being in 2010. The population for the year 2010 was the most relevant to this analysis as it was the closest to the years under consideration. We chose to use the population for 2010 for all the years under consideration as using rate of change of population assumes a linear rate of increase and may not be ideal for all the counties. This made using 2010 population data throughout, more reasonable.

*Transformations:* We were trying to find every year population data, but we could find only partial population data. So, we decided to use 2010 population data for 50 states

(https://data.ers.usda.gov/reports.aspx?ID=17827&AspxAutoDetectCookieSupport=1

) and apply to 2006-2015 US Vital Statistics data sets, because the population for the year 2010 will be the most relevant to this analysis as it is the closest to the years under consideration.

**Analysis & Interpretation:**

**Florida (Jan 1st, 2010)**

**Opioids Analysis:**

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The pre-post analysis definitely suggests a sharp change in trend of opioid prescriptions after the policy change. The trend can definitely be attributed to policy change after looking at diff-in-diff plot as we see that the trend in opioid shipments for the non-policy states does not change over time.

**Mortality Analysis:**

**A screenshot of a cell phone

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From the pre-post analysis, the death rate due to drug overdose was increasing steadily before the policy change went into effect in 2010. Since then, the death rate has been a slightly decreasing trend. The diff-in-diff analysis helps in attributing the change in trend to the policy change

**Texas (Jan 1st, 2007)**

**Opioids Analysis:**

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At the first glance, though the pre-post analysis suggests that the rate of increase in opioid shipments decreased after the policy change, the diff-in-diff analysis seems to suggest a similar decrease across the non-policy states as well, which seemed strange.

Upon digging deeper, we saw that the ‘pre’ part of both the plots did not have enough data to show the trend across years, rather, it was capturing a yearly trend. This was conclusive when we plotted the yearly trend across several years, as can be seen from below.

A close up of text on a white background

Description automatically generated

Since, comparing a yearly trend in ‘pre’ with a year over year trend in ‘post’ time period wasn’t the correct way of analysis, we resorted to taking the average of the ‘opioids\_per\_capita’ across counties at a month level separately for the ‘pre-post’periods and viewed it across ‘policy\_state’. The results are mentioned below:

|  |  |  |  |
| --- | --- | --- | --- |
| **Texas** | | |  |
| **pre\_post** | **policy\_state** | |  |
| **0** | **1** |  |
| **pre** | 0.020123 | 0.012768 |  |
| **post** | 0.028964 | 0.017118 |  |
| **% increase** | 43.93% | 34.07% | **9.87%** |

We see that though the opioid shipments per county per month per capita have largely on an average increased in the ‘post’ period when compared to the ‘pre’ period across all states. However, the %increase in Texas was approximately 10% lower when compared to the rest.

**Mortality Analysis:**

![A screenshot of a cell phone

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generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RD4RXhpZgAATU0AKgAAAAgABAE7AAIAAAAPAAAISodpAAQAAAABAAAIWpydAAEAAAAeAAAQ0uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFJPREVSSUNLIFdIQU5HAAAABZADAAIAAAAUAAAQqJAEAAIAAAAUAAAQvJKRAAIAAAADNjkAAJKSAAIAAAADNjkAAOocAAcAAAgMAAAInAAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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LtOV3oGwfXmnqoVQFAAHQAUtFAEZtoDceeYYzNjHmbBux6Z61JRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAH/2Q==)A screenshot of a cell phone

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The pre-post comparison indicates that the increase in in death rates by drug overdose has been braked by the changes in policy made in the year 2007. The ‘diff-in-diff’ reaffirms these conclusions.

It’s interesting to note that the increase in the death rate was significantly higher in Texas in the ‘pre’ period when compared with the rest of the states.

**Washington (Jan 1st, 2011)**

**Opioids Analysis:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Washington** | | |  |
| **pre\_post** | **policy\_state** | |  |
| **0** | **1** |  |
| **pre** | 0.025303 | 0.029657 |  |
| **post** | 0.033672 | 0.033169 |  |
| **% increase** | 33.08% | 11.84% | **21.23%** |

Upon facing similar issues as with the state of Texas, this time with the ‘post’ period, we went on to calculate the averages of opioids shipments per county per capita per month across a similar matrix as earlier. We can see from the above matrix that the %increase in the opioid shipments in Washington was around 21% lesser than that of non-policy states when compared between the pre and the post periods.

**Mortality Analysis:**

**A screenshot of a cell phone

Description automatically generatedA close up of a map

Description automatically generated**

Based on the above plots, the new policy change does not seem to be affecting the drug overdose mortality a lot. The death rates seem to be more or less increasing at the same pace more or less.

**Limitations:**

There are a couple of limitations that have to be brought to the attention. Firstly, our data on opioid transactions only contain data on transactions – who sold it and who bought it. We don’t know if all the opioid transacted were dispensed – we have operated under the assumption that all the drugs transacted were sold and were sold in the same county where they were bought. Secondly, not all opioid transactions have to reported to the DEA. Only transactions exceeding a certain threshold have to be reported to the DEA as mandated by the law. This allows smaller transactions to escape the radar of the DEA and therefore making our analysis not entirely accurate. Thirdly, the dataset on drug overdose mortality contains data on all-drug related deaths – not specifically deaths related to opioid overdosing. This makes our analysis suffer slightly as we have assumed all drug-related deaths to be caused due to opioid overdosing. Fourthly, the not drug-related deaths were reported in the drug overdose mortality dataset. Again, only deaths exceeding a certain threshold (10 deaths) were reported. Finally, insufficient data for Texas and Washington made it difficult to perform a thorough pre – post and difference in difference analysis. We had to resort to calculating percent-difference, which allowed us to gain an insight into the trends but were nevertheless a compromise.

**Conclusion:**

The overall analysis more or less seemed to be fruitful. For the states of Florida and Texas, both the opioid analysis and the drug overdose mortality analysis indicate the success of the policy changes that were made in the respective states. However, for the state of Washington, though the numbers from the opioid analysis seem promising, we cannot make similar conclusions from the mortality analysis.

Further analysis maybe carried out on the state of Washington to get to a more conclusive answer.